Operating instructions.



- Spheros 20 SAT
- Xelos SL 20 SAT
- Mimo 15 SAT
- Mimo 20 SAT

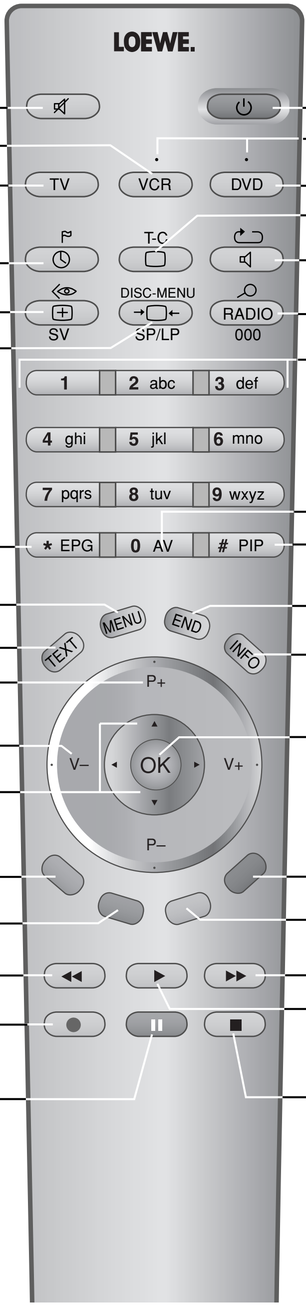
TV.

233–31715.022

LOEWE.

Contents

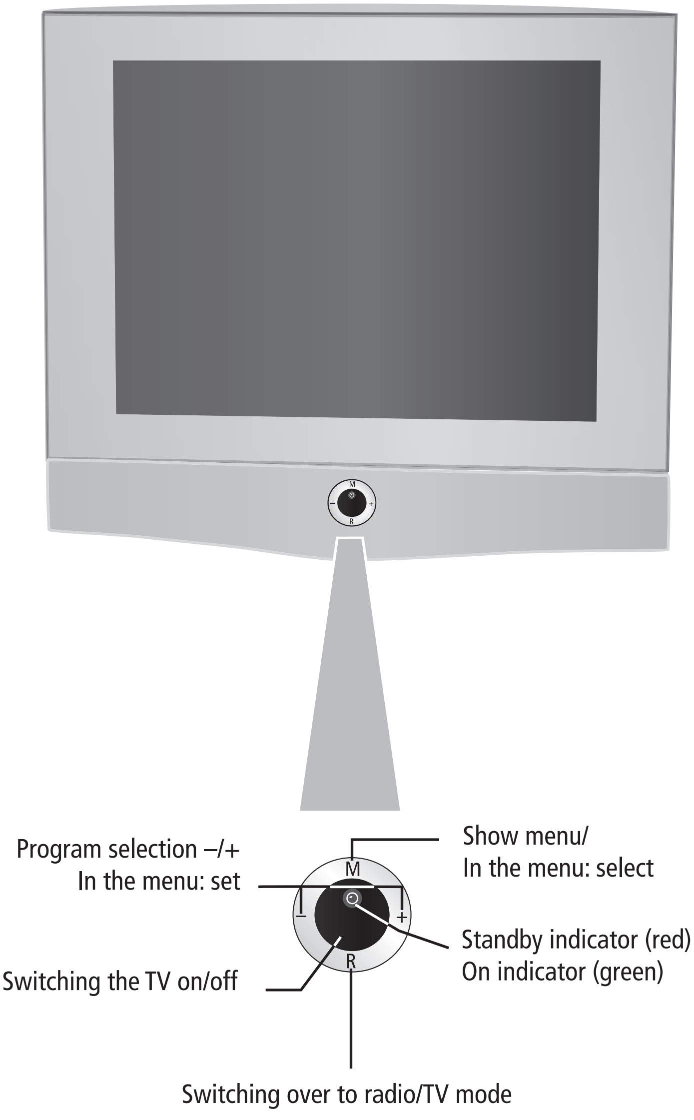
Remote control – TV functions



✳ You can switch over the remote control of the TV set to operate Loewe video recorders and Loewe DVD players.
When operating in VCR or DVD mode the display (LED) lights up via the VCR or DVD button.

Operating on the set

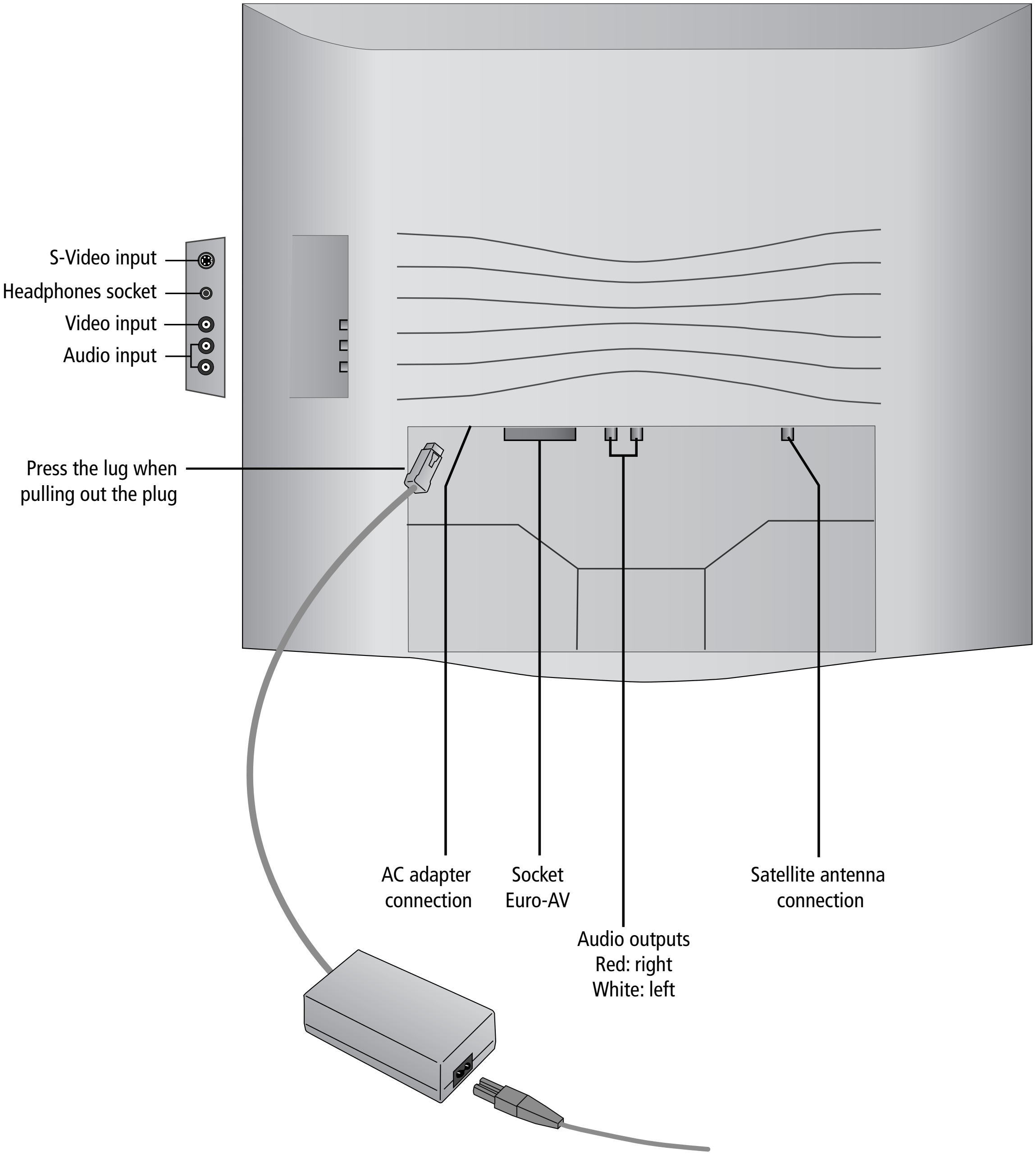
Spheros 20 SAT
Xelos SL 20 SAT



Mimo 15 SAT
Mimo 20 SAT



Terminals on the set´s rear panel Spheros 20 SAT/ Xelos SL 20 SAT

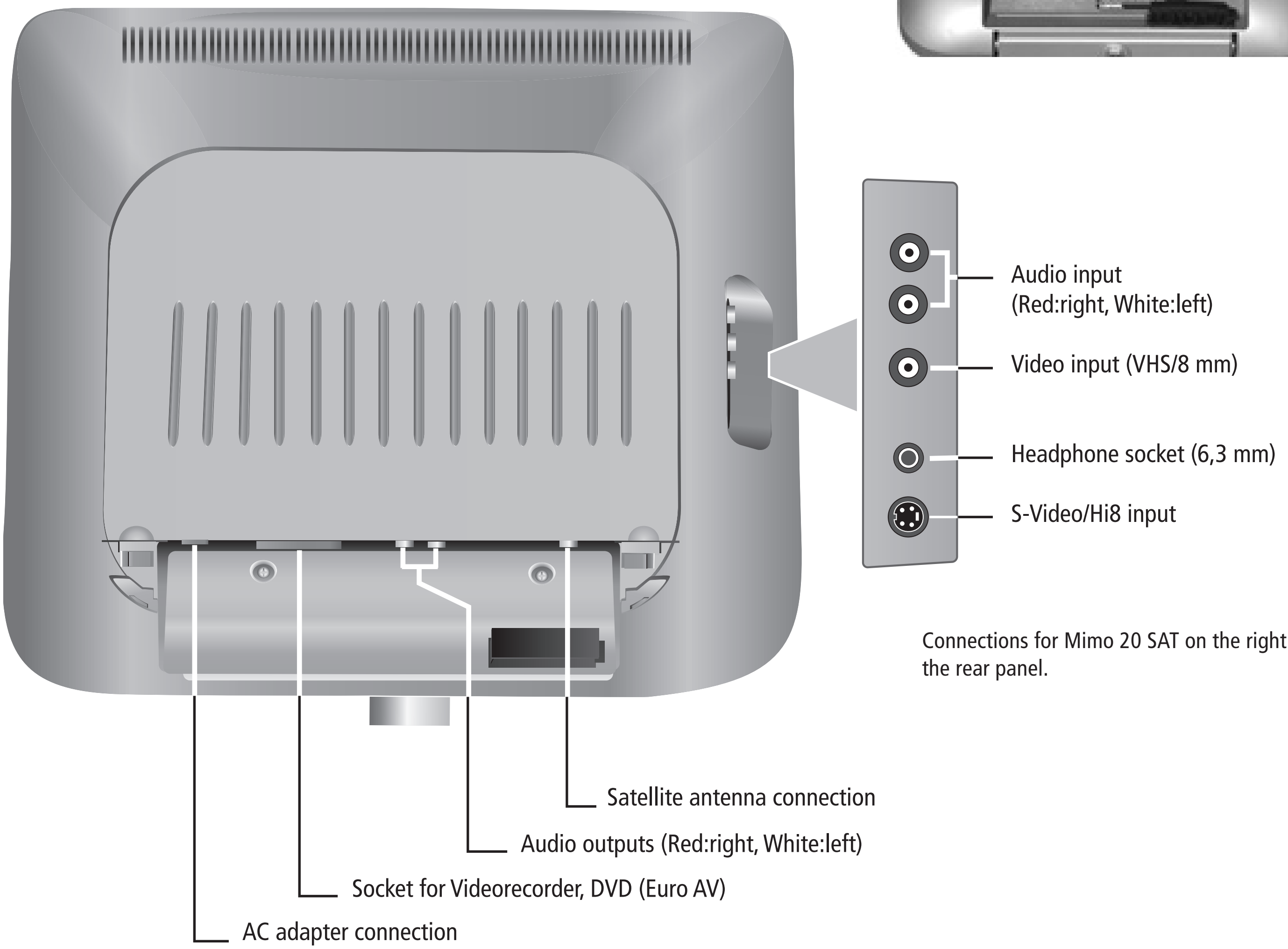


Terminals on the set´s rear panel Mimo 15 SAT and Mimo 20 SAT

Remove the cable cover on the rear of the appliance by simultaneously pressing the two plastic locating lugs downwards (see arrows in the diagram).



Mimo 15 SAT



Connections for Mimo 20 SAT on the right of the rear panel.

Welcome

Thank you,

for choosing a Loewe product.
We are happy to have you as a customer.

At Loewe we combine the highest demands on technology, design and user friendliness. This applies equally to TV, video and accessories. Neither the technology nor the design shall be an end in themselves but shall rather provide our customers with the greatest possible viewing and listening pleasure.
With the design, we have not let ourselves be guided by short-lived fashion trends. After all, you have purchased a high-quality appliance which you don't want to get tired of looking at tomorrow or the day after.

<u>**About the appliance**</u>
We have designed the TV so that you can operate it easily with the aid of menus. For example, display the Main Information using the button INFO on the remote control
The equipment features of your TV will be displayed under "Technical spec. of TV set".

As far as the operation of the TV set is concerned, you can call up important functions directly from the index.

<u>**About the Remote Control**</u>
You can control three Loewe appliances with the remote control; this TV set, as well as a video recorder and a Loewe DVD player.

Installation

Please note that the feet of the TV set can leave impressions on soft wood furniture (e.g. fir, pine, spruce etc.) and make marks when moved. The plastic material of the feet contains softeners which could attack the surface of some furniture.
Use a firm base about the same size as the standing area of the foot in such cases.
To move the set grip it only by the case and not by the filter screen.
The filter screen and the LCD display screen beneath it are made of glass and may break if incorrectly handled. In the event of damage to the LCD screen (not the glass screen) and possible escape of liquid crystal it is essential to wear safety gloves to move the set. If any of the liquid contacts the skin, thoroughly rinse the affected areas with water immediately.
Note
Throughout the screen's service life pixel faults in the form of lighter or darker patches on the screen may occur; this phenomenon is characteristic of LCD displays. It is not a defect.

Ensure the quality of the picture is not impaired by reflections of bright light or sunlight.

Cleaning

Clean the TV set and the remote control only with a clean, soft, damp cloth (do not use aggressive or abrasive cleaning agents).
Use a glass cleaner for cleaning the screen. Spray it onto the glass and wipe off with a lint-free cloth until there are no marks.

Note
The inside of the front panel and the LCD screen must be cleaned from time to time.
Only remove the front panel when the TV set has been switched off and has cooled down.
The metal frame of the LCD panel may get hot (up to 60°C) during operation!
- Gently press the glass screen and slide the screen uniformly to the left.
- Move the glass screen upwards, tilt the top edge approx. 10° away from the TV set and remove the glass screen.

Use a plastic cleaner to clean the LCD screen and a glass cleaner for the glass panel.
Replace the front panel:
- Make sure that you do not damage the LCD screen with the hooks on the front panel.

- Position the hook side of the glass screen in front of the TV set, with the bottom closer than the top (i.e. inclined approx. 10°). The screen should extend out about 10 mm at the top and be offset by about 5 mm to the left.
- Hang the two lower hooks with the thin ends of the hooks in the lower brackets and push the screen up onto the TV set. Press the glass screen gently against the front of the TV set.
- Then push the glass screen downwards and sideways (to the right).
- You can align the glass panel to the right or left if necessary.

Mimo front panel
You can change the front panel on the Mimo TV. Loewe offers this panel in different colors. You can match your Mimo to your current living style. Instructions (240-31706.001) for removing and fitting the front panel are provided with the interchangeable panel.

For your own safety

For your own safety and in order to avoid unnecessarily damaging your TV set, please read and observe the following safety instructions:

- This TV set is designed exclusively for receiving and reproducing audio and visual (AV) signals.

- Do not place any objects containing liquids e.g. flower vases or lit candles on top of the equipment.

- This equipment is designed for the home and office and may not be operated in rooms with a high humidity (e.g. bathrooms, saunas) or high concentration of dust (e.g. workshops). If the equipment is used temporarily outdoors, make sure it is protected against moisture (rain, dripping or splashing water or condensation). High humidity and dust concentrations lead to creep currents in the equipment which can lead to danger of electric shock or fire.
  The manufacturer guarantee only applies for use in the specified permissible environment.

- This equipment may only be connected to a power supply with the voltage and frequency specified on the rating plate with the power cable/AC adapter provided. The wrong voltages could damage the equipment.

- If the set is moved from a cold environment to a warm room, condensation forms on all parts of the set. Moisture produces creep currents in the set which can cause a fire. In this case, you should leave the set for a reasonable time to acclimatize (when the condensation on the screen has evaporated) before switching it on.

- Like every piece of electronic equipment, your TV needs air for cooling. Obstructing the air supply to the set can cause fires. The air vents on the back of the TV set must always be kept free. Do not leave newspapers or cloths lying on the TV set.

- Stand the TV set in a place where it is not exposed to direct sunlight or additional heating from radiators.

- Avoid dropping metal objects, needles, paper clips, liquids, wax or similar into the air vents at the back of the set. This causes short circuiting of the set and could start a fire. If anything should get inside the set, switch it off immediately, pull out the plug and call the after-sales service to check it.

- You should never attempt to remove the rear panel of the TV yourself. The set operates with high voltages which could be fatal. Leave repairs and servicing of your TV set to authorized TV technicians.

- Do not allow children to play close to the TV set, they could knock, push or pull it from the stand and injure someone.

- Do not place the TV anywhere where it may be exposed to vibrations because this can lead to overloading of materials.

- Do not leave the TV on unsupervised.

- Pull out the antenna and mains plugs during a thunderstorm. Surge voltages from lighting strikes can damage the set both through the antenna system and the mains. You should also pull out the antenna and mains plugs during long periods of absence.

- The mains plug of the TV must be easily accessible so that it can be disconnected from the mains quickly at any time.

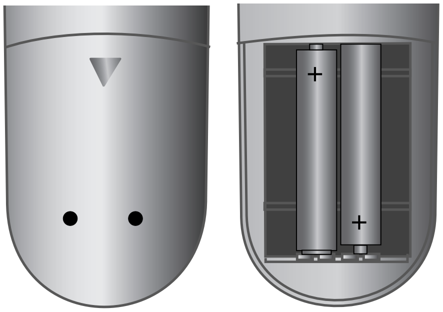
- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, and may not be walked over or exposed to chemicals; the latter applies for the entire TV set. A power cable with defective insulation can lead to electric shocks and is a fire risk.

- When you pull out the mains plug, do not tug the cable but hold the housing of the plug. The cables in the mains plug could be damaged and cause a short circuit the next time it is plugged in.

First installation

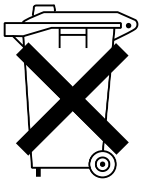
Batteries – Remote Control

To insert or replace the batteries, press where an arrow is imprinted. Slide the battery compartment cover downwards and remove it. Insert Alkaline Manganese LR 03 (AAA) batteries and make sure + and – poles are located in the correct positions.



Then slide on the cover again.

Notes on battery disposal:



The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.

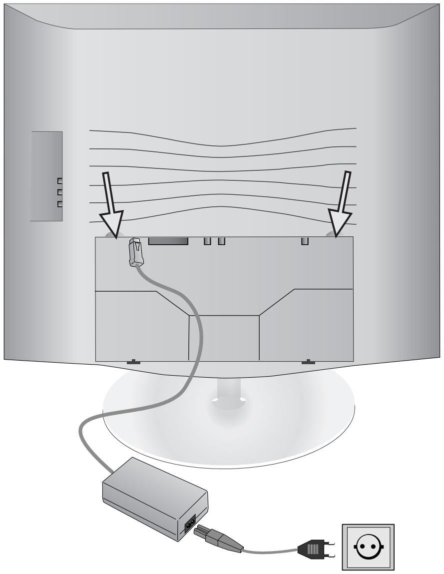
Set remote control to TV set operation

TV   Press TV button

Page 26/27 describes how you operate other Loewe units.

Connecting

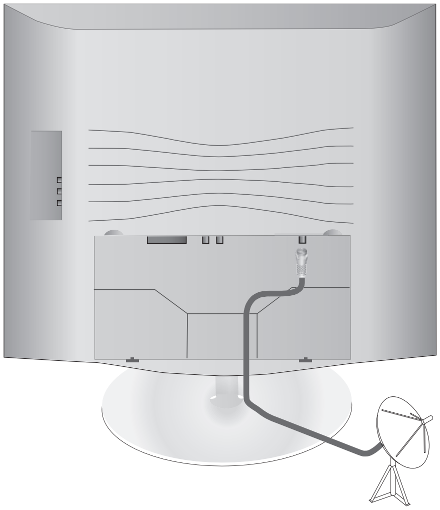
Remove the cable cover at the back of the unit by pressing down simultaneously both plastic locking tabs (see arrows in figure), and then pulling off the cover.
Move the cables downwards and outwards.
Open the cable holder in the lower area and lay the cables in the cable holder. When all cables are positioned correctly, close the cable holder.
Refit the cover by inserting it into the two lower slots and clipping it shut at the top.



Mains
Connect the AC adapter to a 230 Volt/50–60 Hertz outlet.
Plug the low voltage cable of the AC adapter to the "AC adapter" socket on the TV set.

Satellite antenna

Connect the cable of the satellite antenna to the antenna socket (F socket) of the television set. Ensure that the pin in the centre of the F plug is not bent and is not in contact with the external metal ring.



Switching on

The indicator and the on/off switch are combined in one unit.
Press the on/off button. The green ON indicator lights.

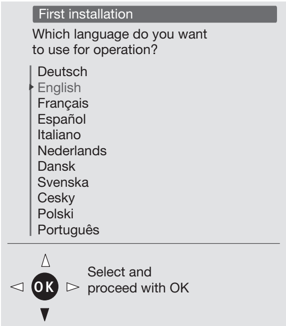
When you switch on **for the first time** the automatic programming of the TV is prepared.
If the equipment has already been in operation, you can repeat the first commissioning, e.g. after moving house. To do this, call the "Main information" with the **INFO** button.
Then select "First installation" in the "Index".
Then start "First installation" with **OK**.

→

First installation

Selecting and adjusting using the remote control and the on-screen menus

The line / function selected from the menu is displayed in blue.
The buttons for the relevant operation are depicted symbolically in the lower part of a menu. Possible directions for making selections are represented by solid black arrow head(s). Additional button symbols are displayed for other operating options in a menu. Use **MENU** to take you back to the previous menu or **END** to remove the menu.
For example:





Use the up / down arrows imprinted on the ring of the remote control to select a line / term in the menu



confirm the selection with **OK**, this will save a setting or take you to the next menu.



Make a selection using the right/left arrows, or change the settings.

Preparing automatic programming

Follow the menus and perform the necessary adjustments in the following sequence.

A) First you have to select the menu language for your TV set using the **remote control**.
B) Pressing the **OK** button will take you to the "**Location of TV set**" menu.
Indicate the country in which you are using the appliance.
C) Pressing the **OK** button will take you to the "**Satellite System**" menu.
D) Select the unit in correspondance to your satellite antenna.

If necessary, ask you aerial installer or your dealer about the type of satellite aerial system and the aerial settings.

In the "**Satellite System**" menu, indicate whether your aerial system receives channels from one satellite or from more than one.

If you only receive from one satellite...

E) Select the satellite at which your aerial is directed, e.g. ASTRA.

If you want to program and receive a satellite other than the ones shown in the menu, then select "**Other**". Use the menus to enter the satellite specific data, which can be found in satellite magazines or obtained from your dealer. The full procedure is described in the section entitled "**Programming other satellites**" on page 11.

F) In the "**High band**" menu, indicate whether it is possible to switch from low to high band using your satellite aerial.

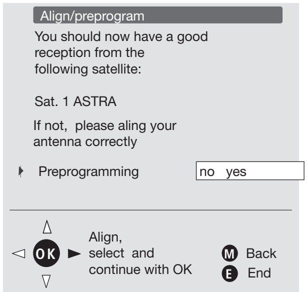
G) In the "**LNC frequency(ies)**" menu, set the oscillator frequency for the LNC. The correct display of the reception frequency in the "Set channels manually" menu depends on this.



The frequency can be altered using the right/left arrows on the ring.

<u>Note</u>
The oscillator frequency is given in the LNC description or on the LNC, e.g. 9.75 GHz (9750 MHz) or 10.6 GHz (10600 MHz).

Confirm your entries using the **OK** button and this will take you to the "**Align/Pre-program**" menu.
If your antenna is pointing directly at a satellite, you should be able to receive a television programme.



<u>Note</u>
The Astra, Hotbird (13° East) and Telecom 2B satellites already have pre-programmed television programmes.
If you want to use this pre-programming facility, then select "**Pre-programming, Yes**" and ...
carry out the operating steps H and I, see Page 11
or ...
when you can receive two or more satellites, select from ... →

First installation

the "**Satellite installation"** menu the antenna switch corresponding to your satellite installation.

- 2 satellites on 22 kHz switch
- 2 satellites on sound burst switch
- 4 satellites on DiSEqC switch
- Common satellite system

Note
With "**Common satellite system**" (multi link), no LNC power supply voltage is supplied by the "SAT" socket.

- In the "**Satellites on switch**" menu, select, for example, Astra for "**Sat. 1**" and Hotbird (13° east) for "**Sat. 2**", etc.

- In the "**LNC frequency(ies)**" menu, set the corresponding oscillator frequency for each LNC.

H) In the "**Automatic channel search**" menu an overview is given of the settings made to this point.
Select the line "**Change settings**" if you want to correct the settings.
After you have confirmed with **OK**, the "TV Location" menu is displayed again, etc.

I) If everything has been set correctly, start programming by selecting "**Perform search**" and confirm with the **OK** button.
Once the channel search and save is complete, the channel preview is displayed.

This can be removed using the **END** button.

Start automatic programming:
After you have answered all the questions for automatic programming, the selected settings are displayed.
To search for and save channels.

J) Select the "**Perform search** " line.

K) Press the **OK** key to start automatic programming.
The television searches for, saves and sorts all TV programmes that can be received on your antenna installation, and then displays an overview of the programmes.

L) Now press the **OK** key to start programming radio programmes.

The radio programmes are displayed in a programme list.
Press the **END** button to close the programme list and return to television operation.

Programming other satellites …
Continued from page 9, operating step E).

For the following settings, you will need the corresponding information on the parameters of the channels transmitted by the satellite.

- Select the line "**Other**".
- Confirm with OK.
- Indicate whether your aerial system can also receive high band.
  Note
  Satellites can transmit channels in the low band and the high band.
- Enter the LNC oscillator frequency.
- In the "**Video parameters for Sat.**" menu, enter:
- the "**Standard**" (transmission standard)
  If you select "Automatic", then a search will be made for broadcasting stations with the PAL, SECAM and NTSC standards. You can also search for a broadcasting station with a specific standard, e.g. SECAM.
- the "**Amplitude**"; normally "Amplitude Autom." is selected. For encoded channels, it may be necessary to set another amplitude value, e.g. 4.
- "**Baseband**"; normally "Baseband off" should be selected. Some Pay TV decoders require the baseband signal for decoding Pay TV channels; in this case, select "Baseband on".
- "**Polarity**"; satellites can transmit channels with a negative or a positive polarity. If the polarity is set incorrectly, a negative image of the picture will be displayed, or the picture will flicker.
- "**Sound carrier for Sat.**" menu
  In this menu you can select a sound carrier frequency using the left/right arrows on the ring, or set a frequency in the range 5.50 to 9.10 MHz directly using the numeric keys.

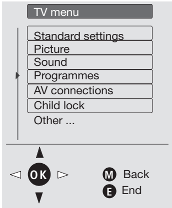
→

First installation

- For ”**Sound carrier 1**” you would normally select a frequency of 7.02 Mhz for the stereo sound.
- For ”**Mode 1**” you can set stereo or mono with various bandwidths. If you are entering a setting for Mono M110 for example, you can use ”Mode 2” to select another bandwidth for the channel.
- If everything is set correctly, you can start programming, by selecting the ”**Carry out search**” line and confirming with the **OK** button.
  Caution
  The settings are valid for all programmes of the satellite that are searched for and saved. As these programmes may be transmitted with different video parameters and sound carriers, some programmes settings may need to be adjusted after the automatic search and save.
  These corrections can be made subsequently in the ”Manual setting ” menu.

Sorting channels

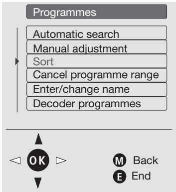
You can alter the sequence of channels.



Call up the “TV Menu” with the **MENU** button.

Select the line “Channels”.

Call up the menu ”Channels” with the **OK** button.



Select the line “Sort”.

Call up the menu “Sort” with the **OK** button.

The channel preview is displayed in the “Sort” menu.



Select the name of the channel that you want to move.



Tap the blue button.



Move the channel name to the desired channel number. The channel name that was next to this number moves down a position.



End the procedure by tapping the blue button again.

If other channels are to be sorted, repeat the operating steps.

Deleting Channels

You can delete a channel from the channel preview, for example, if it has been saved twice.



Select the name of the channel that you want to delete.



Tap the red button.
All the other channels will move up a position.

Reserving/Inserting Channel Position



Select a channel number.
A position is reserved by pressing the yellow button.



All the subsequent channels will move down a position.

Sort radio programmes

Radio programmes as well as TV programmes can be sorted, added or deleted.
Call up the Radio menu:



Press the button on the remote control…
the ”radio operation ” menu is displayed



Press the **MENU** button



Select the ”Radio programmes ” line and confirm with **OK**



Select the ”Sort” line and confirm with **OK**.

Proceed as described in ”Sort, delete TV programmes or insert programme location”.

Daily Use

Switching On/Off

If the TV set is switched on, you can switch it to standby using the blue On/Off button on the remote control. The red standby indicator on the set will light up.
Power consumption in standby mode drops below 3 watt.
NB: If the green indicator light is lit and the screen is dark, the "Timer record" function is active.

You can switch back on out of standby with the blue On/Off button or one of the number buttons (program 0 – 9).

If you want to switch on the radio, press button for radio mode.

In all cases the green On lamp then lights up.

The ON lamp and the On/Off switch are in one combined unit.

All indicators go out when you switch off the TV with the On/Off switch.
It is advisable to pull out the mains plug in longer periods of absence.
Note:
The set can then not be switched on with the remote control.

Switching on the TV set:
If the TV set has been switched off with the On/Off switch, you have to switch it back on with the On/Off switch.

Status display

Show/hide the status display. Program number, program name and sound identification are displayed.
In addition, the time, wake-up time and switch-off time can be displayed. You can set the displays yourself:
Call "On-screen display" in the "TV menu" under "Others" – and specify which onscreen displays you want.
The "Sound info" menu item is only activated or deactivated for the display when changing programs.
The time and date are set automatically if a broadcasting station with Teletext is received. If the time is not correct, enter the information manually in the "TV Menu" under "other" › "Time and Date".

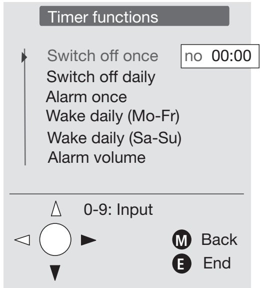
Timer options

If you want to remember a certain time on a certain day, once or daily, for example, or if the TV is to turn off (standby) once or daily at a certain time, you can set these functions in the "Timer options" menu.
If the device is on standby and you have selected the "Wake" function, the set switches on at the programmed time (also with a signal tone if this has been programmed).

Call up the "TV menu" with the **MENU** button.

Under "other" select the line "Timer functions".

Call "Timer functions".



Select the appropriate function.

Change to time entry

Enter the desired switch-off time or "Appointment/Wake-up time" with the number buttons

You can also set a signal tone for the wake-up time.

Select the "Alarm volume" line and set the desired volume.
If you do not want a signal tone for "Wake", set the value zero for the wake-up volume.

Exit Settings.

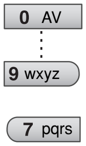
Daily Use

Changing Channels



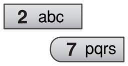
To select channels, up / down.

With the number keys on the remote control:



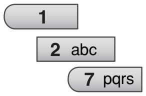
long

1-digit channels
Keep the 0 – 9 key pressed for one second, the channel will change immediately.
Or tap the 0 – 9 key, the channel will change after 2 seconds.



short long

2-digit channels
Keep the second number key pressed for one second, the channel will change immediately.
Or tap both number keys, the channel will change after 2 seconds.



short short short

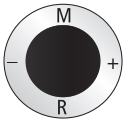
3-digit channels
Tap all three number keys, the channel will change immediately.
All channels can be entered using three digits, e.g. 007 for 7.

Switching between two channels



Switch to the last viewed channel using the yellow button.

Changing programs without the remote control:
With the ring on the front of the TV set.



+ channel up.

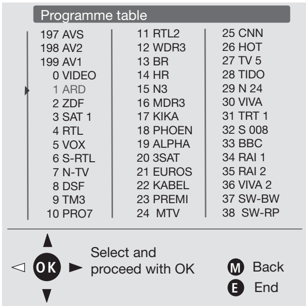
– channel down.

Channel Preview

When selecting channels, help can be provided by the channel preview that can be called up. You can select a channel directly from this preview.



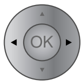
Display/remove channel preview with **OK**.



The currently selected channel is indicated with a triangle.



To skip channel or …



scroll through in columns.



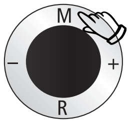
Call marked programme with **OK**; the Programme Table is taken off screen.

Adjusting sound



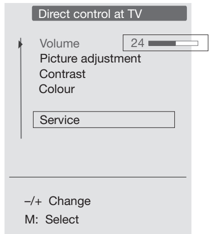
To adjust volume (only possible if no menu is displayed).

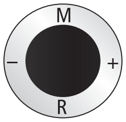
Operation on set, without remote control:



Press **M** at the top.

The "Direct control at the set" menu is displayed.





Press **M** until "Volume" is marked.

+ louder
– quieter

Further sound adjustments can be made in the "Sound menu", the headphone volume and headphone sound can be selected and adjusted independently of the loudspeaker sound, for example.

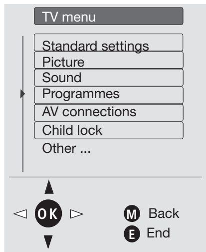


To call up Sound menu

or via ...



TV menu



→

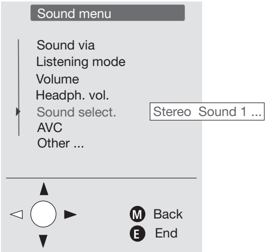
Daily Use



To select
menu line "Sound".



Call up the Sound menu



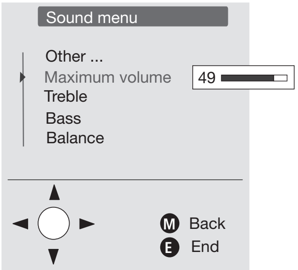


Select the line/function.



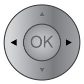
Change the function.

You can make additional adjustments in the Sound menu under "**other**":





To select menu line.



To change and adjust.

Line: **"Sound via"**
Select "Hi-fi system" if the TV sound is to be transmitted over a Hi-fi system. The TV loudspeakers are turned off.

Use a cable to connect the Hi-fi system to the "AUDIO OUT" cinch sockets on the rear of the TV set.

Line: **"Hi-fi volume"**
if "Sound over Hi-fi system" has been selected. Here you can adjust the volume of the Hi-fi system using the TV remote control.

Line: **"Listening mode"**
Here you can choose between Stereo / Panorama or Dolby Virtual sound reproduction.

Line: "Volume"
You can adjust the loudspeaker volume using the right/left arrows on the ring.

Line: **"Headphone volume"**
Use the right/left arrows on the ring to adjust the headphone volume.

Line: **"Sound select"**
Here you can select either Sound 1 or Sound 2, if this was implemented when satellite channel was programmed. The EUROSPORT programme, for example, offers commentary in both German and English.

Line: **"AVC"**
Use the right/left arrows on the ring to switch the Automatic Volume Correction on and off. If "AVC" is switched on, differences in volume when changing from one channel to another are reduced.

Line: **"Maximum volume"**
You can limit the adjustable volume of the loudspeakers. This will prevent children from setting a volume that is too loud.
Use the right/left arrows on the ring to set a maximum value for the volume.

Line: **"Treble"**
Use the right/left arrows on the ring to raise (values 1 to 12) or lower (values -1 to -12) treble sounds.

Line: **"Bass"**
Use the right/left arrows on the ring to raise or lower (values 1 to 12 or values -1 to -12) bass sounds.

Line: **"Balance"**
Use the right/left arrows on the ring to adjust the balance so that the overall impression of volume is the same on the right and the left.

Mute on/off

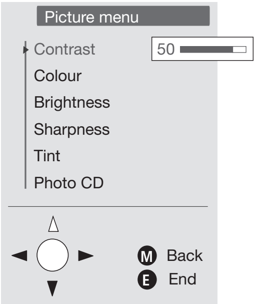


Mute sound, for example when you want to make a phone call. To switch the sound back on, press the button again.

Daily Use

Adjusting Picture

To call up picture menu



Select menu lines

adjust

"**Contrast**"
The contrast must be set higher for brighter environments.

"Colour"
Use the colour of people's faces as a guide. Set so that people have a natural face colour.

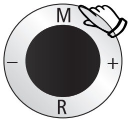
"Brightness"
This setting adjusts the brightness.

"Resolution"
This sets the best outline resolution.

"Colour tone"
This function allows fine alteration of the red or blue colour toning.

"Photo CD"
Turn on this function for optimum image definition if you want to view pictures on a photo CD.

Setting the picture on the TV:



Press **M** at the top.

The "Operation on the set" menu is displayed.

Press **M** until the Picture hold, Contrast or Colour line is marked.

Adjust with – or +

Standard settings

In the "Standard settings" menu you can enter your personal settings for sound and picture, i.e. save volume, treble, bass, balance, picture hold, contrast, colour as standard settings, call your normal values or call the "Factory setting".
First set the picture and sound to suit your requirements and then save them as your normal values.

Show the TV menu with the **MENU** button

Mark "Standard setting"

Call the "Standard setting" menu

Mark "Store"

Save with **OK**.

Parental Lock

The parental lock blocks operation of the TV set. You can block all the channels or only specific channels. You can block <u>all</u> the channels once, daily or for a certain period of time.
If the parental lock has been activated, the PIN code is requested when the appliance is turned on.
If the PIN is not entered or is entered incorrectly, the set switches back to Standby after a short time. The red indicator light on the front of the set is then lit.

Activating parental lock:

Call up the TV menu

Select the line "Child lock"

Confirm with **OK** and ...

enter a four-digit PIN code

Confirm with **OK**

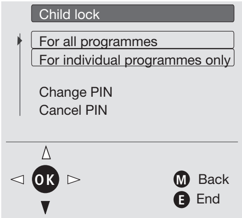
Remember the PIN code! (see page 33)

In the next menu you can choose whether the parental lock applies to all or specific channels, immediately or after the TV has been switched off or after a specific time period.

Daily Use

Parental lock for individual channels:

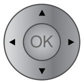
Select the line "For individual programmes only"







Call up the menu



Select the channels to be blocked in the displayed channel preview.



Confirm with **OK**.
The channel name is displayed in red.
In the same way, you can block the next channel, and so forth.



Use the **MENU** button to go back to the "Child lock" menu. You can change or delete the PIN code in this menu.



End the adjustment

Operation with programmed parental lock:
The parental lock is activated when the TV set is switched off with the remote control or with the On/Off button on the TV set.
If all the channels have been blocked, the picture disappears and the PIN code is requested after the TV has been switched on again or when the blocking period begins. A channel can only be viewed if the correct number is entered immediately, otherwise the TV switches to standby.
If individual channels have been blocked, the PIN code is requested if one of these channels is selected.

Onscreen displays

You can set the following in the "Onscreen displays" menu:
- the onscreen display duration, 2 to 9 seconds
- the display position top / bottom
- sound identification when changing programs no / yes
- time in the status display no / yes
- wake-up time in the status display no / yes
- switch-off time in the status display no / yes



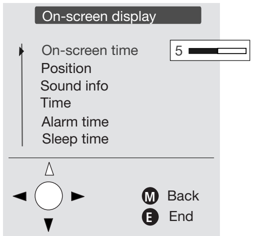
Call up menu.



From "Others ..." select the line "On-screen display".



Call "On-screen display".





adjust



End adjustment

Note on "Sound info"
If you have selected "Sound info on", the sound transmitted by the broadcasting station, e.g. stereo, Nicam, Sound 1 or Sound 2, is displayed when the channel is changed.

Display status:



Tap this button if no menu is displayed.

Teletext Mode

Teletext provides you with information in text and images at no additional cost. The information is grouped into subject areas of topics and pages.
There are pages that contain a number of sub-pages; this is indicated at the top right of a Teletext page, e.g. 1/3. In other words, the first of 3 sub-pages is currently displayed. There are also pages with hidden content, e.g. for quiz questions or VPS times in the Teletext channel information.

With many channels, Teletext is transmitted using the TOP operating system (e.g. in Germany) or the FLOF operating system (countries outside Germany).
This TV set supports both operating systems.
As Teletext is transmitted continuously, page for page, there may be a waiting time when a page is selected, even with page memory.

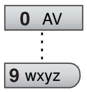
The priority with Teletext is good TV reception, i.e. no noise or ghosting on the screen.

Teletext Operation:



To turn Teletext on/off

Preview page 100 or the Teletext page called up last is displayed.



Select a Teletext page, do this by entering the page number as a three-digit number.

After the page number has been entered, two page numbers are displayed. The first is the desired number, the second number runs through until the desired page number is received.

→

Daily Use

When you press one of the round coloured buttons on the remote control in Teletext mode, the possible operation with these coloured buttons appears for a few seconds at the bottom of the picture.
You can fast scroll or select topics with the coloured buttons.

Use the green button to scroll forward to the next available page.

Use the red button to scroll back to the previous page.

Use the yellow button to advance to the subject area given in the yellow text field.

Use the blue button to advance to the topic given in the blue text field.

Use the button **INFO** to scroll back to preview page 100.

If a Teletext page with subordinated pages or with a three-digit page number is received, the corresponding control symbols are displayed at the bottom of the screen:

▲▼ or ◄ ► 1 2 3

Three-digit page numbers are given on many Teletext pages, you can select them directly.

View page using **OK**.

If a Teletext page with sub-pages is received, the selectable sub-pages are displayed, e.g. 1 2 3.

To select sub-page directly.

Changing Teletext character size:

By pressing the **9** key:
- once, upper half of the page
- twice, lower half of the page
- three times, normal page size

Multiple pages:
Multiple pages consist of a number of sub-pages that advance automatically. If you want to read a page at your own pace, then ...

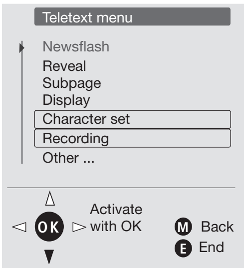
press the 0 key on the remote control.

Latest News / News Flashes:
Select a headline news page, e.g. 111, using the number keys to display news on the TV screen.

When offered, you can jump to other News pages and ...

view them by pressing **OK**.

When watching TV, you can have news flashes displayed by
A) calling up the Teletext menu using the **MENU** button,
B) selecting the line "News flashes" and
C) activating the function with **OK**.



The menu disappears and only the ✳ ✳ is displayed at the top left. Volume cannot be adjusted in this mode.

If a news flash is transmitted, this appears on the TV screen. Repeat the operating steps A to C for the next news flash, and so forth.

Revealing Hidden Text / Pictures:
Some pages contain hidden information, e.g. for quiz questions or VPS times in channel preview times.

Call up the "Teletext menu".

Select the line "Reveal".
Confirm with **OK**.
The Teletext menu disappears.
The entire contents of the Teletext page will then be displayed.

Selecting sub-pages directly:

In Teletext mode press the **MENU** button and ...

select the line "Sub-page" in the Teletext menu.

Enter the sub-page numbers, e.g. 0003, and the Teletext menu will disappear, a search is made for the sub-page.

Representation:
Under "Representation" in the Teletext menu you can set:

"**wide**", the teletext page fills the screen;
"**narrow**", the teletext page is displayed on the left of the TV picture after ...

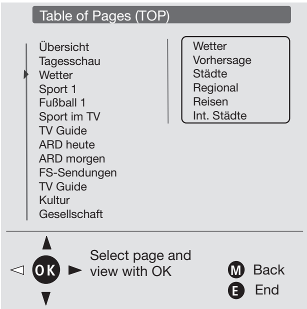
... pressing the **MENU** or **END** button.

→

Daily Use

Changing Character Set:
Use this function to convert Teletext to the specified languages. This is necessary for Turkish or Polish Teletext, for example.
- Turn on Teletext using the **TEXT** button.
- Call up the Teletext menu using the **MENU** button.
- Select the line "Character set".
- Confirm with **OK**.
- Select the language for Teletext.
- Confirm with OK. The menu disappears and the Teletext page is displayed.

TOP Table:
If you receive a TV channel that transmits the TOP Teletext operating system, you can quickly choose a topic from a subject list in the TOP table.
- Turn on Teletext using the **TEXT** button.
- Press the **OK** button.
  The TOP table is displayed, provided that the channel provider transmits TOP.



- Use the up / down arrows on the ring to select a subject area and ...
- you will be able to call up a topic in the right-hand column quickly if more than one topic is offered.

Preview Pages:
The programmed factory settings already include a channel preview page for many TV channels, usually page 301. If the channel information for a channel is transmitted under a different page number, you can enter this page number.
- In Teletext mode call up the Teletext menu using the **MENU** button.
- Under "other ..." select the line "Preview pages".
- Confirm with **OK**.

The page number is given after the channel name in the "Preview page" overview.

Changing page numbers:
Use the up / down or left / right arrows on the ring to select a channel.
Enter a different page number using the number keys.

Switch back to the Teletext menu using the **MENU** button.

Subtitle Pages:
The programmed factory settings already include a subtitle page for many TV channels.
- Under "other ..." select the line "Subtitle pages".
- Confirm with **OK**.

The page number is given after the channel names in the "Subtitle pages" overview.

Changing page numbers:
Use the up / down or left / right arrows on the ring to select a channel.
Enter a different page number using the number keys.

Recording:
The "Record" function enables you to transfer information from a Teletext channel preview page to make a recording using a video recorder simply by selecting the start time of a programme. The information is transferred to the "Timer information" menu. A Loewe video recorder connected to the appropriate AV connection socket (AV=Audio-Video) will switch on to record at the specified time and will switch off again at the end of the programme.
During recording the green indicator light on the TV set is lit.

Transferring recording information from Teletext:
Teletext mode must be on, if not tap the **TEXT** button.

A) Call up the Teletext menu using the **MENU** button.
B) Select the line "Record".
C) Confirm with **OK**.
   The channel preview page, e.g. 301, is located and displayed.
D) Use the up / down arrows on the ring to select the start time of a programme.

<u>Note</u>
The green button takes you to the next channel preview page, the red button takes you back again.

E) Confirm with **OK**. The information is then transferred.
   To check this, the "Timer information" menu is displayed. Check that the date and recording time are correct.
F) The information is transferred by pressing the **OK** button.

If you want to transfer more recording information, press the **MENU** button.
The line "Record" is highlighted.
Perform steps C to F.
Note: The teletext function is locked in timer recordings with VPS.

Daily Use

Radio operation

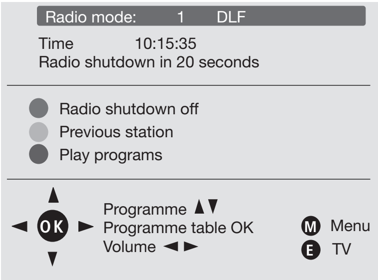
Radio programmes for ASTRA and Hotbird 13° East are already stored ex factory in a separate radio programme list. With the appropriate antenna you can use these immediately.

Switching the radio mode on/off

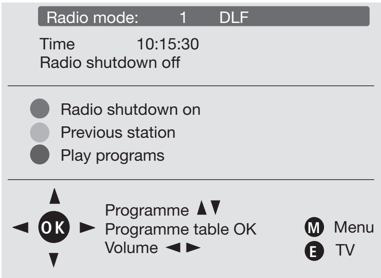


Press the button on the remote control ...

The ”Radio mode” menu is displayed.



You hear the radio program you selected last. In radio mode, the screen goes dark after 20 seconds, the TV is in the sleep mode (saves energy).





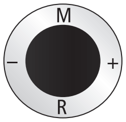
You can prevent the screen going dark by pressing the red button briefly.

The menu shows you the number of the programme and, if available, the name of the channel.

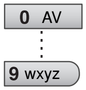
Selecting a radio program:
(also possible when the picture is off)



Program selection up/down.



On the TV set: press + or – on the operating ring.



Direct program selection with the number buttons.

Controlling the volume:



Volume loud/quiet.

Other operating facilities:



Call radio program preview.



Blue: By briefly pressing this button, radio programs are played briefly one after the other (not possible when the screen is dark).



Stop ”Play programs”, press button again.



Yellow: Switch back to the previous program by briefly pressing this button.



Red: You can switch off or reactivate the ”Radio shutdown” function with this button.

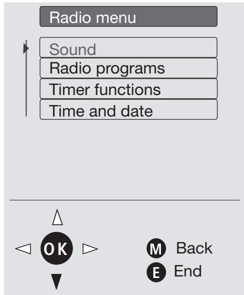


Mute sound, for example when you want to make a phone call. To switch the sound back on, press the button again.

Setting possibilities in the radio menu:



With the **MENU** button in the **Radio mode** you can call the ”Radio menu”.



Call the ”Sound” menu to make further settings in the radio mode:

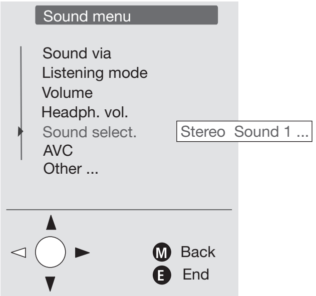


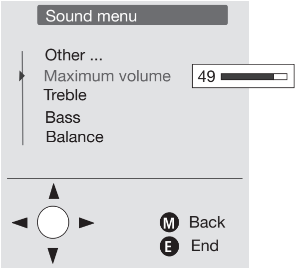
Select the ”Sound” line.



Call the Sound menu.

→

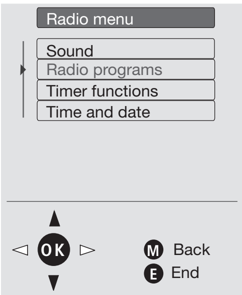




In these menus you can make the sound settings for the radio mode as described for TV mode on page 13/14.

Sorting radio programs:
You can change the order of the programs.

Select the line "Radio programs" in the "Radio menu".



Press **OK**.

Select the "Sort" line.

Call the "Sort" menu with **OK**.

The program preview is shown.

Select a program name which you want to move.

Press the blue button briefly.

Move the program name to the desired program number. The program name which was at this number is shifted one position forward.

End moving by pressing the blue button again.

Repeat these operating steps if other programs are to be resorted.

Deleting programs:
You can delete a program from the program preview, e.g. when it has been stored double.

Select the program name you want to delete.

Press the red button briefly.
All other programs move back one position.

Reserving/inserting a program place:

Select a program number.

Press the yellow button to reserve a place.
All following programs move forward one place.

Deleting a program range:

Select a program number for the range start.

The program number/name is marked by pressing the **OK** button.

Select a program number for the end of range.

The marked program range is deleted
by pressing the **OK** button.

Timer functions

In radio mode you can also be reminded of an appointment at a certain time by a signal tone once or every day. You can also have the set switched off at a certain time.

Call the "Radio menu" in radio mode with the **MENU** button and then select the "Timer functions" line.

Select the appropriate function. Operation: as described on page 12.

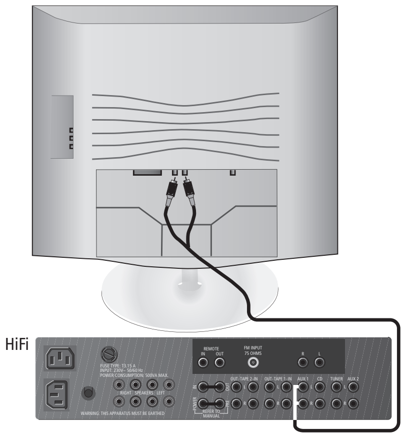
Operating Additional Equipment

Connecting and Operating Audio/Video Equipment

You will find sockets for connecting various devices on the back of the television set.
The following can be connected: video recorders and camcorders using the VHS, 8 mm video, SVHS and Hi8 systems, Pay-TV decoders, SET-TOP boxes, satellite receivers, video cameras, DVD Player and many more.

Connecting headphones:
You will find the socket for connecting headphones with a 3.5 mm stereo jack plug on the back of the set. Use headphones with an impedance of 32 ohms or higher.

Connecting Hi-fi Amplifier/System:



You can make the necessary adjustments to the playback of TV sound over the Hi-fi system in the “Sound menu”.

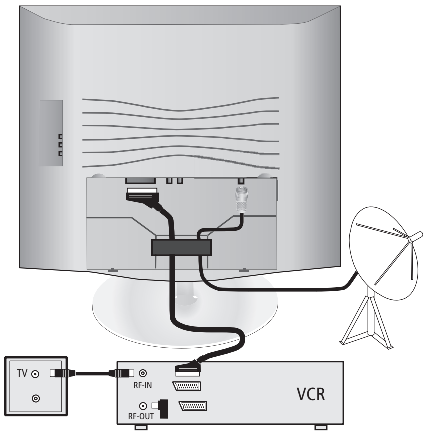
Connecting Video Equipment:
Channel numbers 197 to 199 have been pre-programmed for playback from video equipment, such as video recorders, DVD players or camcorders and are assigned correspondingly to the AV connecting sockets AV1,VIDEO IN, AVS.

- Channel number 197 for the AVS sockets
- Channel number 198 for VIDEO IN (VIN)
- Channel number 199 for AV1

In principle, you can connect any video recorder to the TV set.
However, the design as well as the technology of Loewe video recorders are perfectly matched to this TV set. For example, you can operate the video recorder and the TV set with one remote control.

Connecting Video Recorder via AV Cable

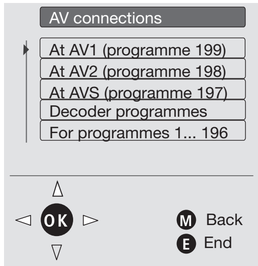
Using an AV cable (Scart cable) connect a video recorder to the AV socket.
This type of connection provides:



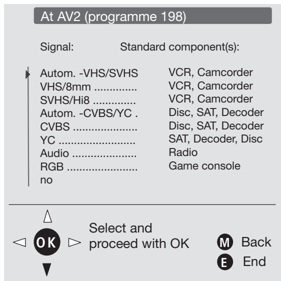
- Good sound and picture reproduction.
- Stereo sound reproduction.
- Sound 1 or Sound 2 can be selected for two sound recordings.
- A concealed Loewe video recorder can be controlled using the TV remote control.
- Using the timing function on the TV set, a Loewe video recorder can be switched on and off to take video stills.

Setting Video Signal Type:
This setting depends on the connected video recorder or video equipment and can be carried out in the “AV Connections” menu.
The “AV Connections” menu can be called up from “Main Information” or from the “TV menu”.

A) Press the button **INFO** to call up “Main Information”.
B) Select the line “AV Connections”.
C) Confirm with **OK**.



D) Select the AV connection to which the video equipment is connected, e.g. “AV” (channel 199).



E) Select the signal type for the connected video equipment.

Operating Additional Equipment

Note
If you set “Automatic - VHS/SVHS”, for example, the signal type of the connected video equipment is usually detected during playback and set automatically for the AV connection socket used.
If a colour recording is to be played back by video equipment in back and white, then it is possible that the signal type will not be detected. In this case, select the corresponding signal type, e.g. VHS/8 mm or SVHS/Hi8, etc.
Some video equipment, e.g. Pay-TV decoders or computer game consoles, emit RGB signals (red, green, blue). This type of video equipment should be connected to the AV1 socket.

F) Confirm your settings with **OK**.
G) Normally, highlight “Automatic” in the “Standard” submenu. If the standard is not detected automatically, highlight the equipment-specific standard.
H) Confirm you setting with **OK**.
I) You quit settings with the **END** key.

Operating Video Equipment via Video Operating Strip

A Loewe videorecorder with Digital Link System connected to AV1 can be operated using a video control bar displayable on screen.

To display/remove video operating strip.



Note
A connected DVD player cannot be operated with this menu bar.

To select function.

Use **OK** to have the selected function carried out.

To turn on/off video equipment.

AUX To select AV socket on video recorder.

To rewind or search backwards.

To stop (STOP)

To play (PLAY)

To fast-forward or search forwards

Pause/Still

Record: The TV channel currently selected will be recorded.

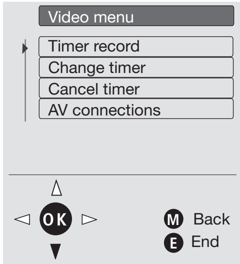
Note
You cannot switch over to another TV program now (the program is locked).
Also, you can only get the teletext from the currently selected program.
The lock is only released and another program selectable when recording has stopped.

Video Menu and Timer Recording

You can transfer recording information from Teletext to the “Timer recording” menu or enter it manually to record TV programmes with the video recorder.

To display the video operating strip.

MENU To remove the video menu.



Select the line “Timer record” and ...

confirm with **OK**.

A channel preview is displayed if you select the line “Via Teletext (VPT)” and confirm with **OK**.

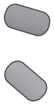
In the preview, highlight the channel that you want to record.

To select a column.

Operating Additional Equipment



Press the **OK** button to search for the Teletext preview page.



Use the green button to scroll to the next page and the red button to scroll back.



Use the up / down arrow buttons to highlight the start time.



Press the **OK** button and the timer information is displayed for you to check.
This can be altered, e.g. select AV connection 1 ...



transfer the information to the timer using the **OK** button.

A maximum of 4 timer recordings can be programmed.

Note

Ensure that the date and time on the TV set have been set correctly.
The start and end times of a programme may change, therefore you should use the VPS times by selecting "**VPS yes**" in the "Timer Information" menu.
The set should never be switched off at the On/Off switch if timer recordings have been programmed.

If you switch the TV set to Standby mode with the remote control, in the case of VPS recordings it switches over automatically about 1 hour before programme start to the appropriate programme and into Timer mode, i.e. the green indicator light on the front of the set is lit. Switch the videorecorder to Standby too, i.e. only the time is displayed.

Entering Timer Information "By Hand":

- Press the button ⊞.
- Call up the video menu using the **MENU** button.
- Select the line "Timer record".
- Confirm with **OK**.
- Select the line "Manual".
- Confirm with **OK**.
- In the preview, select the channel to be recorded.
- Confirm with **OK**.
- Check the timer information, such as AV connection, VPS yes or no, date.
- Enter the start and end times.
- Confirm with **OK**. The timer information is saved.
- Exit the menu using the **END** button.

Changing or Cancelling Timer

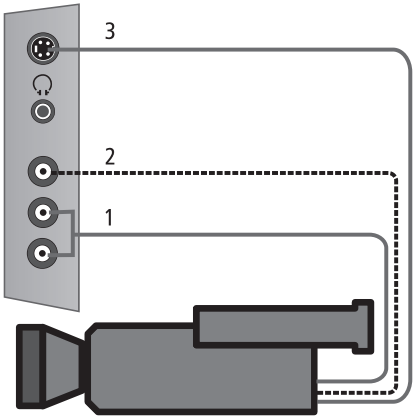
- Press the button ⊞.
- Call up the video menu using the **MENU** button.
- Select the line "Change timer".
- Confirm with **OK**.
- Select the timer to be changed.
- Confirm with **OK**.
- Make the corrections.
- Confirm with **OK**. The new timer information is saved.

To cancel timer information, select the line "Cancel timer" in the video menu.
Select the timer to be cancelled and confirm with **OK** in order to cancel it.

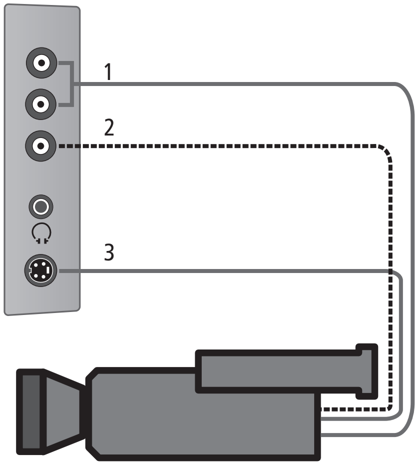
Operating Additional Equipment

Connecting TV Camera or Camcorder to „VIDEO IN“ or AVS Connection Sockets

Picture section: TV rear panel Spheros 20 Sat



Picture section: TV rear panel Mimo 15 Sat



1= audio cable for stereo sound.
(red=right sound channel, white left channel)
2= video cable for VHS / 8 mm signal
3= for SVHS / Hi8 signal (AVS).

Playing back picture and sound via the AVS front connection:
Select channel number 197; this is pre-programmed for playing back video and sound, e.g. from a camcorder.

At the "VIDEO IN" Cinch jack you can feed in the video signal from a VHS or 8 mm camcorder. To do this select programme number 198.

Copying of "VIDEO IN or AVS" to "AV" is not possible!

Note
You can for example select and store the video standard for the corresponding program number, e.g. VHS/8 mm or SVHS/Hi8 and the colour standard, e.g. PAL in the "AV connections – to AV..." menu.

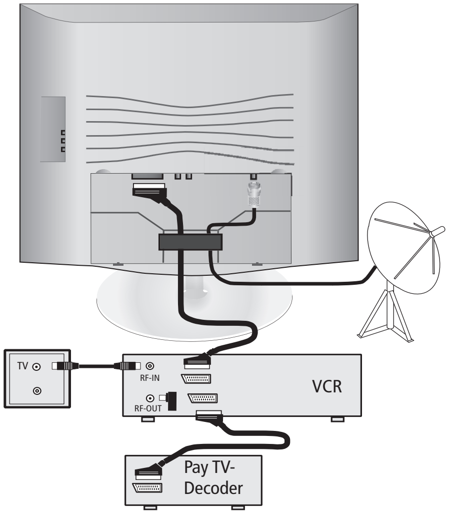
Video Playback via Other Channel Numbers

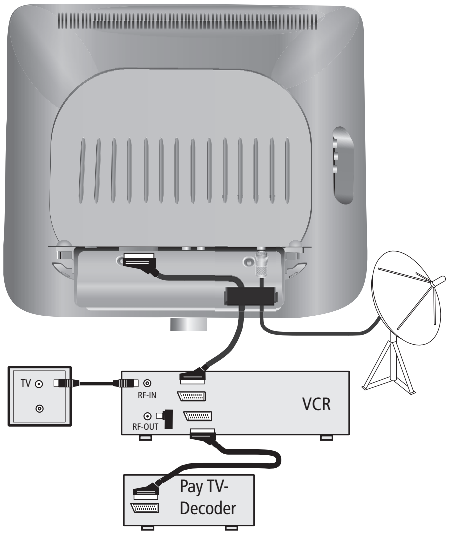
You can also use any other channel number for video playback, provided that the video equipment connected to the AV1 socket supplies a switching voltage to the TV set and the "AV Switching Voltage" under "For Programmes 1 ... 196" in the "AV Connections" menu is permitted.

Switch the video equipment to playback; this switches off the TV channel and the video can be played back.

Decoder Channels

You must highlight encoded TV channels, e.g. premiers etc., as decoder channels.



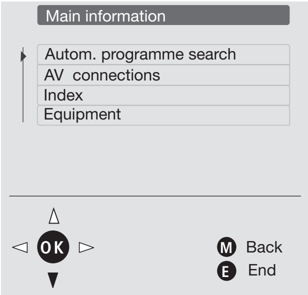


Connect the videorecorder (VCR) and pay-TV decoder or a SET-TOP BOX for digital television as shown in the connection diagram.

Operating Additional Equipment

Highlighting Decoder Channels:

A) Press the button **INFO** to call up "Main Information".



B) Select the line "AV Connections".
C) Confirm with **OK**.
D) Select the line "Decoder programmes" in the menu.
E) Confirm with **OK**.
F) Select the line "For decoder connected to AV1" if the Pay TV decoder is connected to the AV1 socket.
Note
With some Pay TV channels, the picture and the sound are encoded. If this is the case, both signals must be decoded by the decoder and then sent to the video recorder and TV set.
G) Select the encoded channel in the decoder channel preview.
H) Confirm with **OK**. The channel number and name are now highlighted in blue.
I) Go back to the menu by pressing the **MENU** button.
J) Select the line "Sound from AV Socket" and set "Dec." using the right/left arrows on the remote control. If the sound is encoded only at times, then set "Autom.". If the sound is never encoded, set "**TV**".

Repeat operating steps F to H to program additional Pay TV channels.

Operating Loewe video recorders directly

You can switch over the remote control of the TV set to operate Loewe video recorders and Loewe DVD players. These devices can be operated directly or, in the case of equipment installed in a concealed place, by the TV set. In this case the Digital Link function of the VCR and of the DVD player must be switched on.

Select the device to be operated:

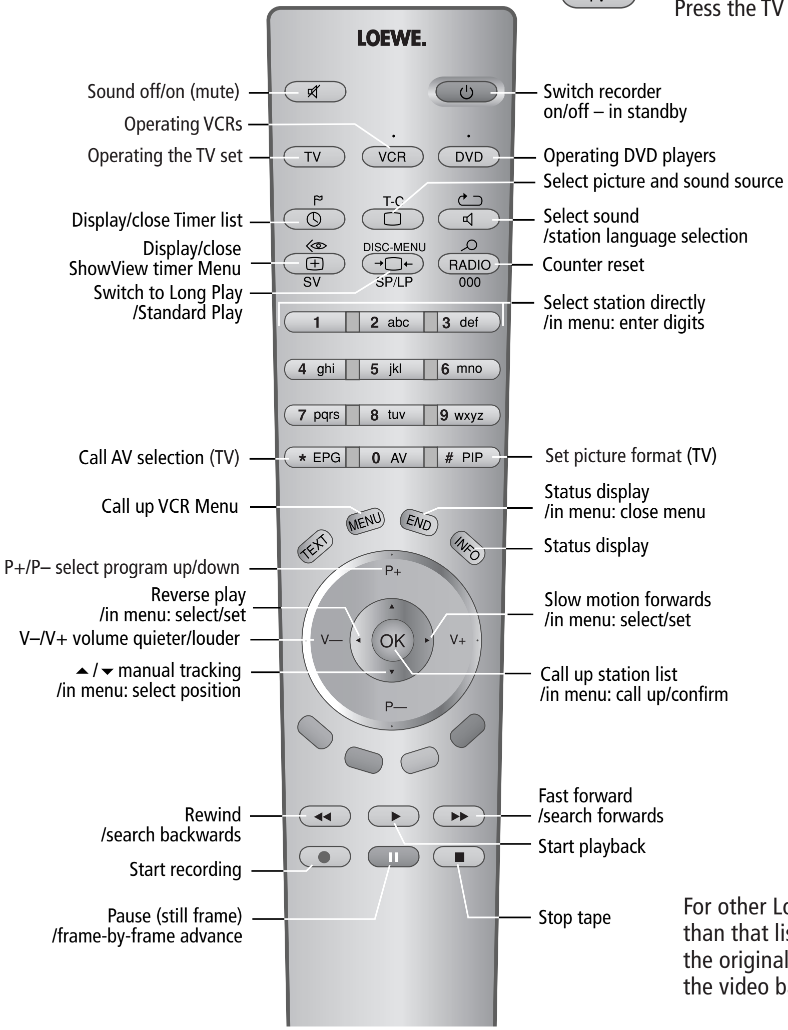


for VCR:
press VCR button, the lamp above lights for about 5 secs.

When operating in VCR mode the display (LED) lights up via the VCR button.
In VCR mode the following VCRs can be operated: ViewVision 8106H, 8136H, 8176H, 6306H, 6336H, 6376H, 6396H, 4306H, 4376H, 2102M, 2302M, 4206, 4236, 4276.



Switch back to TV operation:
Press the TV button.



For other Loewe equipment than that listed, please use the original remote control or the video bar.

Operating Additional Equipment

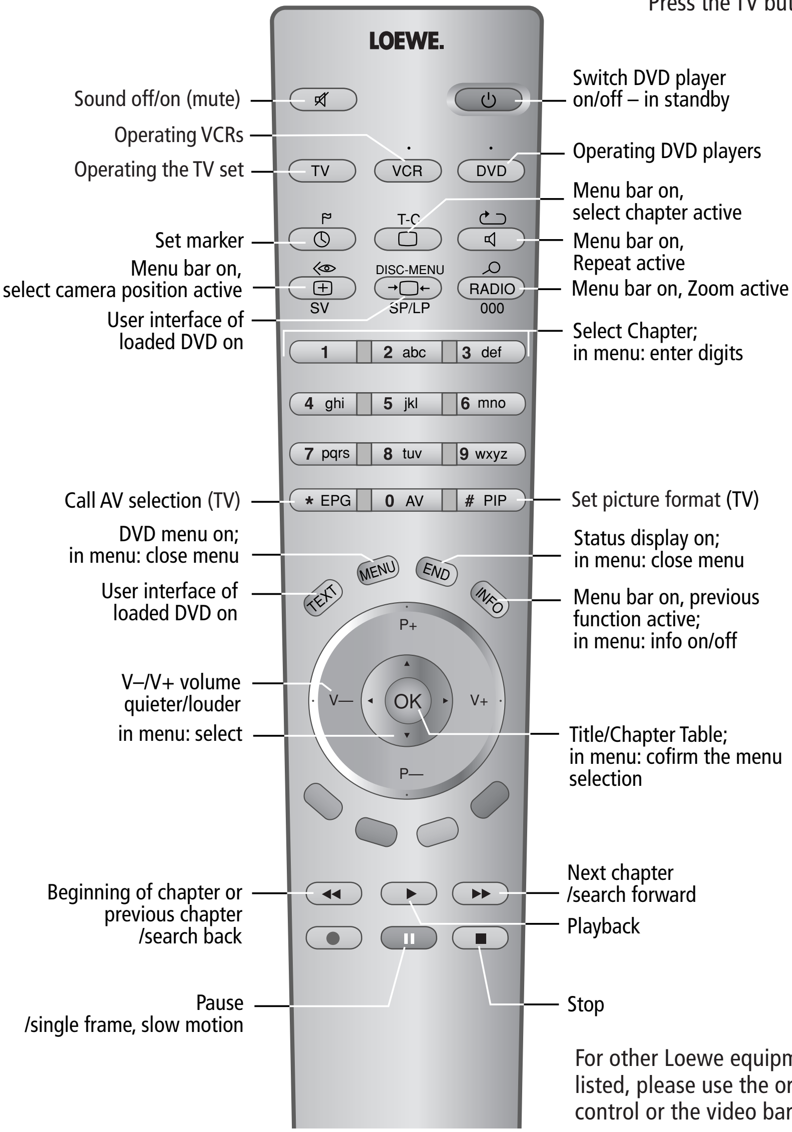
Operating Loewe DVD players directly

In DVD mode the following DVD players can be operated: Xemix 6122DO, 8122DA und 6222PS.

When operating in DVD mode the display (LED) lights up via the DVD button.

DVD — press the the **DVD** button, the lamp lights up for about 5 secs.

TV — Switch back to **TV** operation: Press the TV button.



For other Loewe equipment than that listed, please use the original remote control or the video bar.

Index

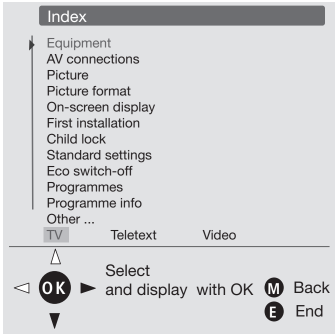
You can access menus or Teletext quickly and directly from the index.
The index is found under Main Information.

INFO — Press this button.

OK — Select the line “Index”.

OK — Confirm with **OK**.

OK — To select operating mode: TV, Teletext, Video or Radio.



OK — Select an index item ...

OK — and display it with **OK**.

Note
You can activate “Switching on for the first time” from the index if the TV set has already been programmed.

Manual setting of TV programmes

Manual setting

This setting allows you to change programmes that have already been stored, or to search for new programmes and insert them into the programme overview and save. This assumes that you know the transmission procedures of the channel.
The following functions can be carried out:

1. Select satellites.
2. Select satellite range (H = Horizontal/V = Vertical).
3. Directly input a transmitter frequency.
4. Input programme name.
5. Select colour standard.
6. Set sound carrier frequency.
7. Select bandwidth for stereo/mono sound mode.
8. Set video parameters.

Calling up "Set Manually" menu:

MENU — Press button **MENU**.

Select the line "Programmes".

OK — Confirm with OK.

Select the line "Setting manually".

OK — Confirm with OK.

Select the "Range" in which you want to search for a broadcasting station.

Select the line "Frequency" and ...

0 AV … 9 wxyz — enter the numbers, if known.

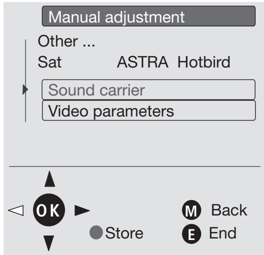
You can also start a channel or frequency search by pressing the blue button.

The search function stops when a channel is found. If the channel transmits Teletext, then the programme name is also displayed.
Restart the search function with the blue button, until the required channel is found in the selected satellite range (Sat/V or Sat/H) or in the Low/High Band.

Note: only transmitters with the selected "colour standard " e.g. PAL are displayed correctly.
If you wish to search for channels of another standard, you must first select the appropriate colour standard and then start the search function.
If the channel also transmits Teletext, then the programme name is automatically displayed.
If the sound or picture are faulty, further adjustment must be made.

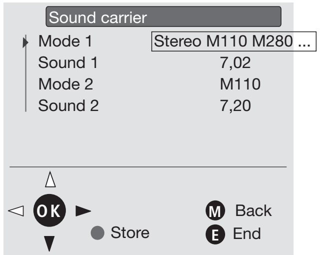
Sound settings:
Some transmitters transmit several languages or additional radio programmes on various sound carrier frequencies.
If you hear two languages on TV a programme or hissing on a radio programme, then change the sound parameters, e.g. from stereo to mono (M110...).

- In the "Manual settings" menu
  Select the "**Sound carrier**" line.

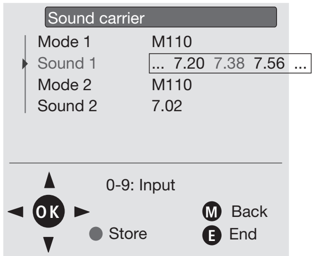


- For transmission with two or more languages, e.g. EUROSPORT, use "**Mode 1**" to set "Stereo" to e.g. "M110", or change to another bandwidth according to the programme.

Note: If stereo is set using "**Mode 1**", then this setting is automatically used by "Mode 2".

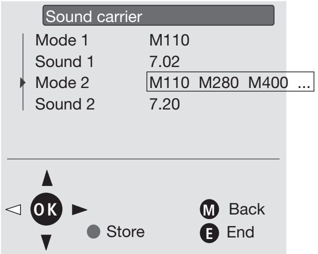


- For another language select the "**sound 1**" line and then select the corresponding carrier frequency, e.g. 7.38 MHz, using the left/right arrow buttons on the remote control.



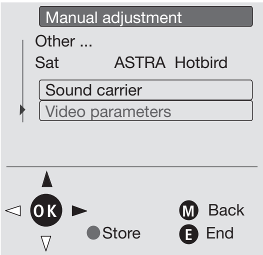
Manual setting of TV programmes

Mode 2/sound 2:
This function allows a second sound channel to be set. For example, for "Sound 1" you can select one language and for "Sound 2" you can set another language, if these are transmitted by the channel.



- Select the "**Mode 2**" line and set, for example, M280 for mono sound on EUTELSAT channels.
- For another language select the "**Sound 2**" line and select the corresponding carrier frequency, e.g. 7.57 MHz.

Set video parameters
If you receive transmissions from another country or encrypted programmes with a Pay TV decoder, you may have to adjust the corresponding video parameters for good picture quality.



- Select the "**Video parameters**" line.
- Confirm with the **OK** button.

– "**Amplitude**"; is normally set to "Amplitude Autom.". For encrypted programmes another amplitude value may have to be set, e.g. 4.

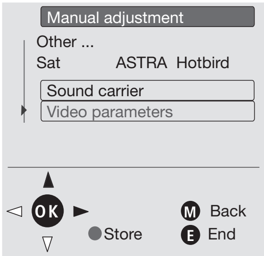
– "**Baseband**"; normally "Baseband off" should be selected. Some Pay TV decoders require the baseband signal for decoding Pay TV channels; in this case, select "Baseband on".

– "**Polarity**"; programmes can be transmitted by satellites with negative or positive polarity. If the polarity is set incorrectly, the picture is displayed negatively, or it flickers!

Colour standard:
If no colour picture is displayed, the appropriate colour standard PAL, SECAM or NTSC must be selected.

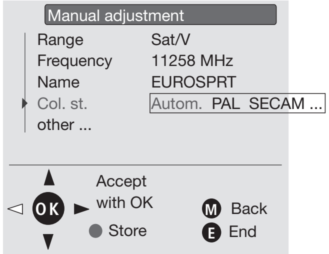


Press the **MENU** button to return to the "Manual setting" menu.





Select "**Other** " and then the "**Colour standard** "line.





Normally you would select "Automatic ".
If, however, you want to search for only one channel using the SECAM for NTSC colour standard, then select the appropriate standard.

Save settings:



Press the red button.
The programme overview appears. The programme or a programme number is highlighted in blue.

You can save in two ways:

1. If you have changed settings for a programme that is already stored, then "Overwrite " the old settings by pressing the red button.
2. Press the yellow button to "insert "the programme into the programme list.



Close programme overview.

Search for and save radio programmes

Manually search for and save radio programmes

Radio programmes can be saved and called up from radio programme locations 0 to 196.
If you have used the pre-programmed settings for initial operation, then many ASTRA und EUTELSAT 13° East radio programmes are already stored.
Analogue satellite radio programmes are transmitted together with a television programme.
If you wish to store new analogue radio programmes, you need the following data, which can be found in satellite magazines or may be obtained from your dealer:

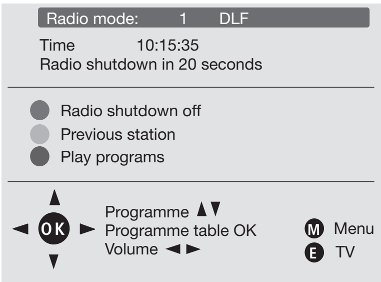
- Which satellite is sending the radio programme.
- Is the satellite range high or low?
- Polarisation level V = Vertical or H = Horizontal.
- The frequency of the television programme.
- The sound carrier frequency of the radio programme.
- The transmission mode stereo or mono.

If you have this information, you can begin manually programming a radio programme.

Call up the radio menu

RADIO press the button on the remote control…

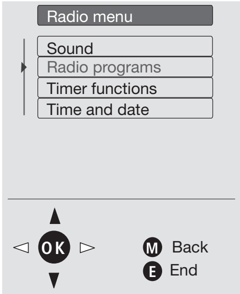
the ”Radio operation ” menu appears.



For radio operation the screen goes black after 20 seconds, indicating that the unit is in power saving mode.

This function can be switched off for the programming procedure by briefly pressing the red button.

Press the **MENU** button to call up the ”**Radio Menu**”.

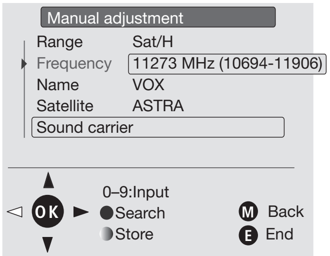


Select the ”**Radio programmes**” line.

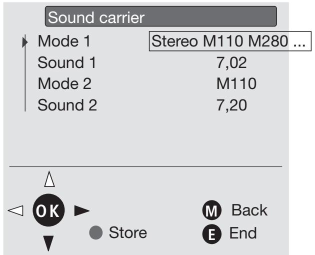
Confirm with **OK**.

Select the ”**Manual settings**” line

Confirm with **OK**.



a) Select the satellite polarisation level, Sat/H (horizontal) or V (vertical).
b) Select satellite (provided that in the ”Search for programmes automatically – satellite installation” there is more than one satellite entered).
c) Select the satellite band ”Low or High”.
d) Enter the frequency of the television programme or start the search procedure by pressing the blue button until the corresponding television transmitter is found.
e) Select the ”**Sound carrier** ” line.



f) Confirm with **OK**.
g) If the radio programme is transmitted in stereo, then select stereo in ”Mode 1”. This setting is then automatically used for ”Mode 2”. For a mono transmission, you can select M110 in ”Mode 1”, for example, and another bandwidth for Mode 2. In ”Sound 2” another carrier frequency for an additional radio programme can be set.
h) Sound carrier frequency for the radio programme using the left/right keys on the remote control, e.g. 7.38, or enter the frequency directly with the numeric keys.

Press the red button to store the settings

Close the overview with the **END** button.

What to do when ...

Problem	Possible cause	Remedy
The "Channels" menu item is missing from the TV menu and the "Automatic channel search" item is missing from Main Information	a) The parental lock has been activated. If these menus were accessible, children would be able to adjust the channels. b) A recording is in progress on the videorecorder	Deactivate channel-specific parental lock: switch off the parental lock in the TV menu – Parental Lock.
Loewe video recorder operation via the video operating strip and the timer are not functioning properly, or not at all	a) The Digital Link function on the video recorder has not been activated or is not possible. b) AV cable is not connected.	a) Activate Digital Link on the video recorder (see video recorder's operating instructions, for newer video recorders in the menu under "Settings") b) Connect AV cable.
General problems when connecting external equipment via an AV input	a) No or a wrong audio/video cable has been connected to one of the AV sockets. b) The AV standard has been set incorrectly. c) The AV signal has been set incorrectly.	a) Compare the actual appliance connection to the specified AV connection in "Main Information" under "AV Connections" and make a new selection, if necessary. b) Set standard according to the video equipment. c) Set AV signal correctly. If "Automatic" has been set in the "AV Connections" menu under "Signal" or "Standard", this may lead to incorrect detection for signals outside the standard. The standard and the signal must then be set according to the video equipment. The specifications can be found in the operating instructions for the external equipment.

What to do when ...

Problem	Possible cause	Remedy
Connection of a decoder does not function properly or not at all	a) The signal is not being decoded because the decoder channel positions in Main Information – AV Connections – Decoder Channels – For Decoder at AV ... are not highlighted in blue. b) The sound is missing in decoder mode because Sound from AV socket ... – has not been set correctly under Main Information – AV Connections – Decoder Channels.	a) Under the "For Decoder at AV ..." sub-item, highlight the channel positions where the decoder is necessary. b) Correct setting (see decoder instructions).
No sound over the TV loudspeakers	The "Sound over ..." item has been set to "Hi-fi system" in the sound menu under "Sound".	Change setting to "TV".
All menus appear in the wrong language	Menu language was accidentally set incorrectly.	Set your menu language: 1. Call up the TV menu (if no menu is displayed), press the **MENU** button. 2. Select the last menu line "Language" and press the **OK** button. 3. Now select the correct language and 4. ... confirm with **OK**. 5. Remove the menu with the **END** button.
No time, wake-up timer, sleep timer display	In the "Displays" menu, "no" has been selected for time, wake-up timer, sleep timer.	Highlight "yes" in the "Displays" menu for each item.
No display for sound identifier of stereo, mono or 2-sound	In the "Displays" menu, "no" has been selected under "Sound identifier".	Highlight "yes" in the "Displays" menu under "Sound identifier". Press the **END** button and the channel name and sound standard will be displayed. If the broadcasting station changes the sound standard, this will also be indicated.

Technical Data

Mechanical Data

Typ	Spheros 20 SAT	Xelos SL 20 SAT	Mimo 15 SAT	Mimo 20 SAT
Part number	63401 A23	63448 A23	63402 A23	63406 A23
Dimensions with base (cm)				
W x H x D	53,8 x 49,7 x 25,7	53,8 x 53,9 x 25,7	46,5 x 45,0 x 27,0	49,9 x 53,3 x 25,7
without base	53,8 x 46,3 x 7,7	53,8 x 46,3 x 7,7	46,5 x 45,0 x 6,8	49,9 x 53,3 x 7,3
Weight (kg)	13,1	8,5	6,0	8,4
Display	TFT-LCD	TFT-LCD	TFT-LCD	TFT-LCD
Format	4:3	4:3	4:3	4:3
Picture diagonal	50 cm	50 cm	38 cm	50 cm

Electrical Data

Chassis designation	L 3010S
Power supply	110 V to 240 V / 50-60Hz

Spheros 20 SAT / Xelos SL 20 SAT

Power consumption	During operation appr. 74 Watt
	Standby < 3 Watt
AC adapter	< 1 Watt

Mimo 15 SAT

Power consumption	During operation appr. 50 Watt
	Standby < 3 Watt
AC adapter	< 1 Watt
Ambient temperature	0º – 35º Celsius
Satellite tuner	954 MHz to 2150 MHz
Channel memories	197
Program memories for Audio/Video	3
Channel memories, radio	197
Program memories for external Sound sources	3
Colour standards	PAL, SECAM, NTSC,
Sound standards	Mono/Stereo
Rated audio power	2 x 2,5 Watt
Teletext	Level 1.5

Connections

F-socket 75 Ohm		Satellite aerial
Mini-DIN	Video IN	S-VHS / Hi 8 (Y/C)
Cinch (yellow)	Video IN	VHS/8 mm
Cinch (whit/red)	Audio IN	L / R
Jack 3.5 mm Headphones		32 – 200 Ohm
EURO AV	Video IN	S-VHS / Hi 8 (Y/C) VHS/8mm (CVBS)
	Video OUT	CVBS
	Audio IN	L / R
	Audio OUT	L / R
Cinch	Audio OUT	L / R Level adjustable

Available accessories

Spheros 20 SAT

- Wall holder WM 33 tiltable or swivellable/ tiltable.
- Floor stand, article number 62498A00.

Mimo 15 SAT/ Mimo 20 SAT/ Xelos SL 20 SAT

- Wall holder WM 34 tiltable or swivellable/ tiltable.
- Flat-TV F-Stand 2 (Floor stand), article number 63495.
- Exchangeable screen surrounds in the following colours: Platinum, Cream, Anthracite, Ocean Blue or Cayenne Red.

The code number 3001 cancels a PIN code and therefore also the parental lock.
Please keep it in a safe place.

Service Adressen/addresses/adresses/indirizzi/direcciones/adresy

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129 Palmer Street
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Tel. 03–94 29 08 22
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Flamingo Complex
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Fax 44 59 83

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Robert Bosch AG
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A–1011 Wien
Tel 01–79 72 24 500
Fax 01–79 72 24 599

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PL–81-609 Gdynia
Tel./Fax 058–62 43 467 / 058–62 45 009

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